CLAIMS

- 1. An optical sensor for detecting a level of a liquid in a reservoir, said optical sensor comprising:
 - a display;

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- a light pipe optically connected to said display and extending to a level of interest in said reservoir, where said light pipe is formed from a material having a refractive index higher than air's refractive index and less than or equal to said liquid's refractive index; and
 - a light optically connected to said light pipe.
- 2. The optical sensor of claim 1, where said light pipe is a plastic tube.
- 3. The optical sensor of claim 1, where said light pipe is an optical fiber.
- 15 4. The optical sensor of claim 1, where said light pipe is a glass rod.
 - 5. The optical sensor of claim 1, where said light pipe is a plastic rod.
 - 6. The optical sensor of claim 1, where said light is a light emitting diode.
 - 7. An optical sensor for detecting a level of a liquid in a reservoir, said optical sensor comprising:

a display;

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a plurality of light pipes optically connected to said display and each of said plurality extending to a different level of interest in said reservoir, where said light pipe is formed from a material having a refractive index higher than air's refractive index and less than or equal to said liquid's refractive index; and

a light optically connected to each of said plurality of light pipes.

- 8. The optical sensor of claim 7, where said plurality of light pipes are plastic tubes.
- 10 9. The optical sensor of claim 7, where said plurality of light pipes are optical fibers.
 - 10. The optical sensor of claim 7, where said plurality of light pipes are glass rods.
 - 11. The optical sensor of claim 7, where said plurality of light pipes are plastic rods.
 - 12. The optical sensor of claim 7, where said light is a light emitting diode.
 - 13. An optical sensor for detecting a level of a liquid in a reservoir, said optical sensor comprising:
 - a display;
 - a bundle of optical fibers optically connected to said display where each optical fiber in said bundle extends to a different level of interest in said reservoir, and each

optical fiber is formed from a material having a refractive index higher than air's refractive index and less than or equal to said liquid's refractive index; and a light optically connected to each optical fiber in said bundle.

14. The optical sensor of claim 13, where said light is a light emitting diode.